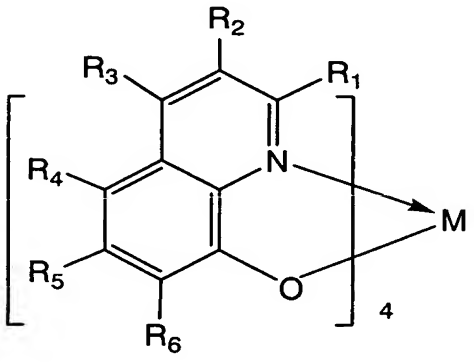
Claims

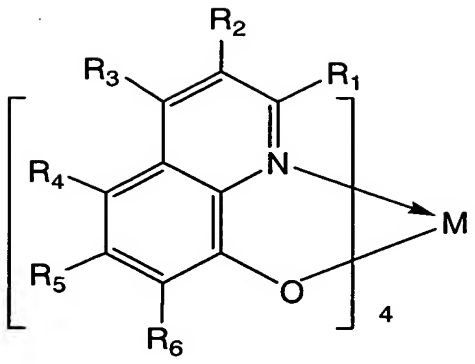
1. An electroluminescent element comprising at least an anode, a cathode, and an electroluminescence layer, characterized in that said electroluminescence layer comprises a complex of a Group 4 metal of the periodic table represented by the general formula [Formula 1]:



[Formula 1]

wherein M represents a Group 4 element of the periodic table, and R1 to R6 independently represent a hydrogen, a halogen, a cyano group, an alkyl group having 1 to 10 carbon atoms, a haloalkyl group having 1 to 10 carbon atoms, an alkoxyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocycle residue.

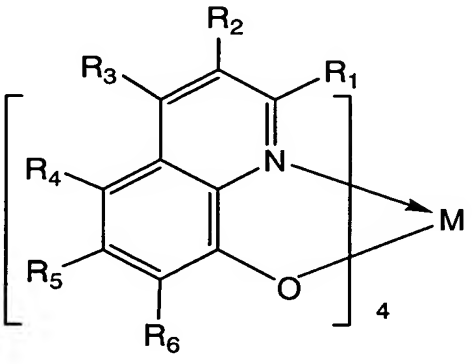
2. An electroluminescent element comprising at least an anode, a cathode, and an electroluminescence layer, characterized in that said electroluminescence layer comprises a light emitting layer containing a complex of a Group 4 metal of the periodic table represented by the general formula [Formula 1]:



[Formula 1]

wherein M represents a Group 4 element of the periodic table, and R1 to R6 independently represent a hydrogen, a halogen, a cyano group, an alkyl group having 1 to 10 carbon atoms, a haloalkyl group having 1 to 10 carbon atoms, an alkoxyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocycle residue.

3. An electroluminescent element comprising at least an anode, a cathode, and an electroluminescence layer, characterized in that said electroluminescence layer comprises a light emitting layer containing a guest material and a complex of a Group 4 metal of the periodic table represented by the general formula [Formula 1]:



[Formula 1]

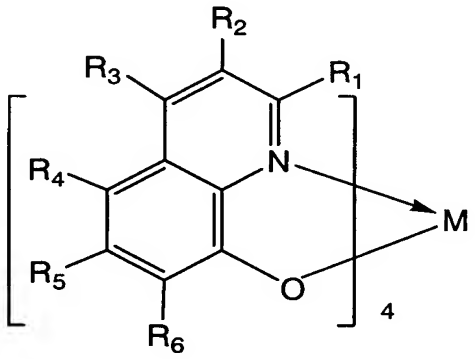
wherein M represents a Group 4 element of the periodic table, and R1 to R6 independently represent a hydrogen, a halogen, a cyano group, an alkyl group having 1 to 10 carbon atoms, a haloalkyl group having 1 to 10 carbon atoms, an alkoxyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group, or a substituted or

unsubstituted heterocycle residue.

4. The electroluminescent element according to claim 3, characterized in that said guest material has an emission wavelength with a maximum value within a range of 580 to 680 nm.

5. The electroluminescent element according to claim 3, characterized in that said guest material emits a red light.

6. An electroluminescent element comprising at least an anode, a cathode, and an electroluminescence layer, characterized in that said electroluminescence layer emits a white light and comprises a complex of a Group 4 metal of the periodic table represented by the general formula [Formula 1]:



[Formula 1]

wherein M represents a Group 4 element of the periodic table, and R1 to R6 independently represent a hydrogen, a halogen, a cyano group, an alkyl group having 1 to 10 carbon atoms, a haloalkyl group having 1 to 10 carbon atoms, an alkoxyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocycle residue.

7. A light emitting device characterized by comprising the electroluminescent element according to any one of claims 1, 2, 3, and 6.